

OBJECT POSITION DETECTOR WITH EDGE MOTION FEATURE**Patent number:** DE69521617D**Publication date:** 2001-08-09**Inventor:** ALLEN P (US); FAGGIN FEDERICO (US); GILLESPIE DAVID (US); MILLER J (US)**Applicant:** SYNAPTICS INC (US)**Classification:**- **international:** G06F3/033; G06K11/16- **european:****Application number:** DE19956021617 19950901**Priority number(s):** US19940300630 19940902; WO1995US11177 19950901**Also published as:**

WO9607966 (A1)

EP0777875 (A1)

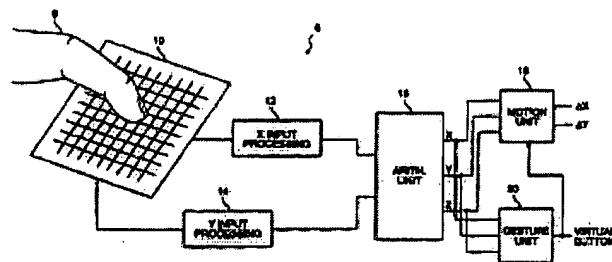
EP0777875 (B1)

Abstract not available for DE69521617D

Abstract of correspondent: **WO9607966**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. The speed of the cursor movement depends on the one of the display it resides.

representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. The speed of the cursor movement depends on the one of the display it resides.

Data supplied from the **esp@cenet** database - Worldwide